

IN THE CLAIMS**RECEIVED
CENTRAL FAX CENTER****MAY 22 2007**

1. (cancelled)
2. (withdrawn) A kit for preparing a dialysis solution comprising the sterile dialysis concentrate composition of claim 1 and optionally instructions for its use.
3. (withdrawn) The kit of claim 2 further comprising sterile water sufficient to dilute the concentrate to a solution comprising Na 140 ± 14 mmol/l, Mg 0.75 ± 0.07 mmol/l, Cl 116.5 ± 11 mmol/l, and HCO₃ 25.0 ± 2.5 mmol/l.
4. (withdrawn) A method of preparing a sterile dialysis solution comprising diluting a sterile, dialysis concentrate composition of claim 1 in a sufficient amount of sterile water to prepare a dialysis solution comprising Na 140 ± 14 mmol/l, Mg 0.75 ± 0.07 mmol/l, Cl 116.5 ± 11 mmol/l, and HCO₃ 25.0 ± 2.5 mmol/l.
5. (withdrawn) A method for providing continuous renal replacement therapy to a patient comprising administering a sterile dialysis solution prepared according to the method of claim 4 in conjunction with a regional citrate anti-coagulant solution to a patient in need thereof.
6. (withdrawn) A method of preparing a sterile dialysis solution or infusate comprising diluting a sterile, dialysis concentrate composition of claim 1 in a sufficient amount of sterile water to prepare an infusate comprising Na 140 ± 14 mmol/l, Mg 0.75 ± 0.07 mmol/l, Cl 116.5 ± 11 mmol/l, and HCO₃ 25.0 ± 2.5 mmol/l.
7. (withdrawn) A method for treating acute renal failure in a critically ill patient without introducing calcium into the blood removed from the patient during dialysis comprising administering a sterile dialysis solution prepared according to the method of claim 6 in conjunction with a regional citrate anti-coagulant solution to a patient in need thereof.

8. (withdrawn) A method for providing hemofiltration to a patient comprising administering a sterile infusate prepared according to the method of claim 6 in conjunction with a regional citrate anti-coagulant solution to a patient in need thereof.

9. (cancelled)

10. (cancelled)

11. (withdrawn) A method of preparation of a sterile calcium-free bicarbonate concentrate according to claim 1 as an infusate for hemofiltration.

12. (withdrawn) A method of preparation of a sterile, calcium free bicarbonate concentrate according to claim 1 as a dialysis solution for use in metabolic acidosis.

13. (withdrawn) A method for correcting bicarbonate levels in a patient during dialysis comprising providing a dialysate mixture having a bicarbonate level sufficiently low so as to minimize the risk of metabolic complication in the patient, preferably between 20-30 mmol/litre, wherein should the patient's bicarbonate level drop below the preferred level, bicarbonate diffuses from the dialysate across the semipermeable membrane to the patient to correct the problem, and wherein if there is an excess of bicarbonate in the blood of the patient then bicarbonate diffuses from the blood to the dialysate to correct the problem.

14. (cancelled)

15. (withdrawn) A method for treating acute renal failure in a critically ill patient comprising dialyzing blood from the patient, without introducing calcium into the blood removed from the patient during dialysis, by using a sterile dialysis solution having a bicarbonate concentration within the range of about 5-30 mmol/litre.

16. (withdrawn) The use of claim 15 wherein the solution further comprises at least one of potassium, glucose, and ketones such as β hydroxy-butyrate.

17. (cancelled)

18. (cancelled)

19. (cancelled)

20. (cancelled)

21. (cancelled)

22. (cancelled)

23. (cancelled)

24. (previously presented) A sterile calcium free low bicarbonate dialysis concentrate composition for continuous renal replacement therapy for use in the preparation of a dialysis solution comprising sodium chloride (NaCl), magnesium chloride (MgCl₂), and a concentration of sodium bicarbonate (NaHCO₃) sufficiently low so as to allow preparation of a sterile dialysis solution for continuous renal replacement therapy, further comprising a physiologically acceptable diluent and having ion concentrations of Na 140±14 mmol/l, Mg 0.75±0.07 mmol/l, Cl 116.5 ± 11 mmol/l, and HCO₃ 25.0 ± 2.5 mmol/l.

25. (newly presented) A sterile calcium free low bicarbonate dialysis concentrate composition for continuous renal replacement therapy for use in the preparation of a dialysis solution comprising sodium chloride (NaCl), magnesium chloride (MgCl₂), and a concentration of sodium bicarbonate (NaHCO₃) sufficiently low so as to allow preparation of a sterile dialysis solution for continuous renal replacement therapy, further comprising a physiologically acceptable diluent and having ion concentrations of Na 140±10% mmol/l, Mg 0.75±10% mmol/l, Cl 116.5 ± 10% mmol/l, and HCO₃ 25.0 ± 10% mmol/l.

26. (newly presented) A sterile calcium free low bicarbonate dialysis concentrate composition for continuous renal replacement therapy for use in the preparation of a dialysis solution comprising sodium chloride (NaCl), magnesium chloride (MgCl₂), and a concentration of sodium bicarbonate (NaHCO₃) sufficiently low so as to allow preparation of a sterile dialysis solution for continuous renal replacement therapy, further comprising a physiologically acceptable diluent and having ion concentrations of Na 140±14 mmol/l, Mg 0.75±0.07 mmol/l, Cl 116.5 ± 11 mmol/l, and HCO₃ of from 20 to less than 30 mmol/l.

27. (newly presented) A sterile calcium free low bicarbonate dialysis concentrate composition for continuous renal replacement therapy for use in the preparation of a dialysis solution comprising sodium chloride (NaCl), magnesium chloride (MgCl₂), and a concentration of sodium bicarbonate (NaHCO₃) sufficiently low so as to allow preparation of a sterile dialysis solution for continuous renal replacement therapy, further comprising a physiologically acceptable diluent and having effective ion concentrations of Na 140±14 mmol/l, Mg 0.75±0.07 mmol/l, Cl 116.5 ± 11 mmol/l, and wherein the HCO₃ is provided in an effective concentration consisting essentially of from 20 to less than 30 mmol/l.

28. (newly presented) A sterile calcium free low bicarbonate dialysis concentrate composition for continuous renal replacement therapy for use in the preparation of a dialysis solution comprising sodium chloride (NaCl), magnesium chloride (MgCl₂), and a concentration of sodium bicarbonate (NaHCO₃) sufficiently low so as to allow preparation of a sterile dialysis solution for continuous renal replacement therapy, further comprising a physiologically acceptable diluent and having effective ion concentrations of Na 140±14 mmol/l, Mg 0.75±0.07 mmol/l, Cl 116.5 ± 11 mmol/l, and wherein the HCO₃ is provided in an effective concentration consisting essentially of 25.0 ± 2.5 mmol/l.

29. (newly presented) A sterile calcium free low bicarbonate dialysis concentrate composition for continuous renal replacement therapy for use in the preparation of a dialysis solution comprising sodium chloride (NaCl), magnesium chloride (MgCl₂), and a concentration of sodium bicarbonate (NaHCO₃) sufficiently low so as to allow preparation of a sterile dialysis solution for continuous renal replacement therapy, further comprising a physiologically